

STN Columbus

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 JUL 20 Powerful new interactive analysis and visualization software,
STN AnaVist, now available
NEWS 4 AUG 11 Derwent World Patents Index(R) web-based training during
August
NEWS 5 AUG 11 STN AnaVist workshops to be held in North America
NEWS 6 AUG 30 CA/CAPLUS - Increased access to 19th century research documents
NEWS 7 AUG 30 CASREACT - Enhanced with displayable reaction conditions
NEWS 8 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

All use of STN is subject to the provisions of the STN Customer
agreement. Please note that this agreement limits use to scientific
research. Use for software development or design or implementation
of commercial gateways or other similar uses is prohibited and may
result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 06:49:25 ON 20 SEP 2005

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 06:49:33 ON 20 SEP 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 18 SEP 2005 HIGHEST RN 863382-78-9
DICTIONARY FILE UPDATES: 18 SEP 2005 HIGHEST RN 863382-78-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

STN Columbus

```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
*****
```

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading structure
screen 1996

L1 SCREEN CREATED

=>

L2 STRUCTURE UPLOADED

=>

L3 QUE L2 AND L1

=> s sam l3

SAMPLE SEARCH INITIATED 06:50:19 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 850 TO ITERATE

100.0% PROCESSED 850 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 15251 TO 18749
PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L2 AND L1

=> log h

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.86	1.07

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 06:50:28 ON 20 SEP 2005

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 06:54:03 ON 20 SEP 2005
FILE 'REGISTRY' ENTERED AT 06:54:03 ON 20 SEP 2005
COPYRIGHT (C) 2005 American Chemical Society (ACS)

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.86	1.07

=>

Uploading structure

STN Columbus

screen 1996

L5 SCREEN CREATED

=>

L6 STRUCTURE UPLOADED

=>

L7 QUE L6 AND L5

=> s 17 sam

SAMPLE SEARCH INITIATED 06:54:47 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 11363 TO ITERATE

17.6% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

37 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 220873 TO 233647

PROJECTED ANSWERS: 3335 TO 5073

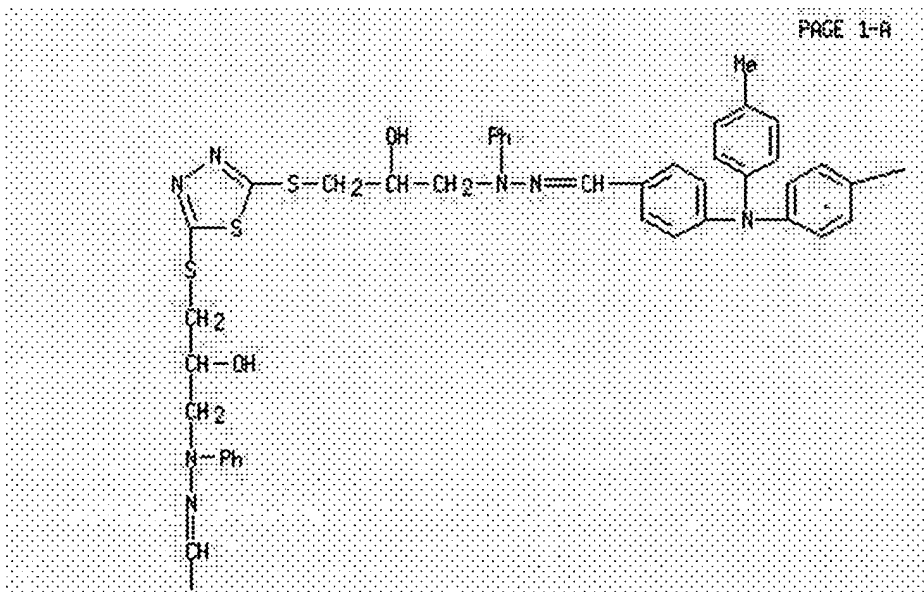
L8 37 SEA SSS SAM L6 AND L5

=> d scan

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN Benzaldehyde, 4-[bis(4-methylphenyl)amino]-, 1,3,4-thiadiazole-2,5-diylbis[thio(2-hydroxy-3,1-propanediyl)]bis(phenylhydrazone) (9CI)

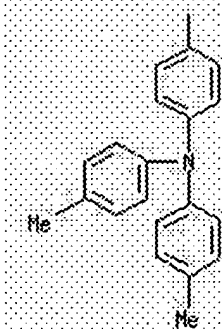
MF C62 H60 N8 O2 S3



PAGE 1-B

Me

PAGE 2-A

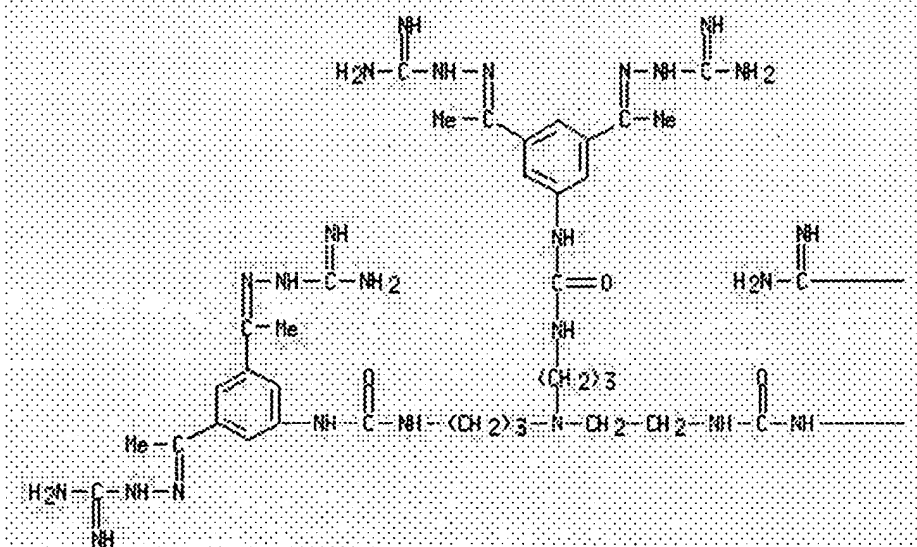


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

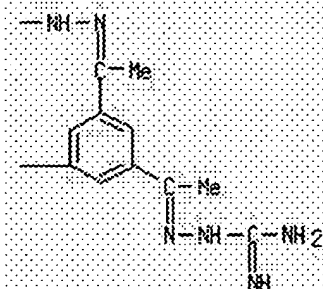
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Hydrazinecarboximidamide, 2,2',2'',2'''-[[[2-[[[3,5-bis[1-
 [(aminoiminomethyl)hydrazono]ethyl]phenyl]amino]carbonyl]amino]ethyl]imino
]bis(3,1-propanediyliminocarbonylimino-5,1,3-benzenetriyldiethylidyne)]tet
 rakis- (9CI)
 MF C47 H73 N31 O3
 CI COM

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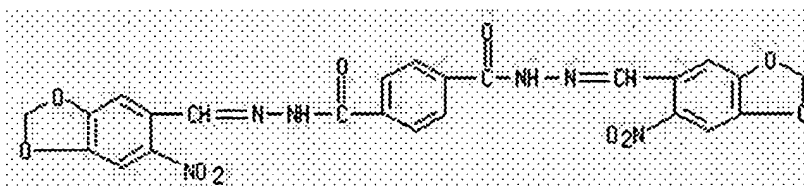
PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN 1,4-Benzenedicarboxylic acid, bis[[[6-nitro-1,3-benzodioxol-5-yl)methylene]hydrazide] (9CI)
 MF C24 H16 N6 O10

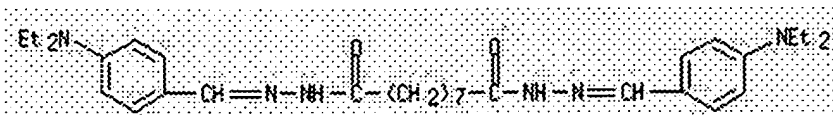


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Nonanedioic acid, bis[[[4-(diethylamino)phenyl)methylene]hydrazide] (9CI)
 MF C31 H46 N6 O2

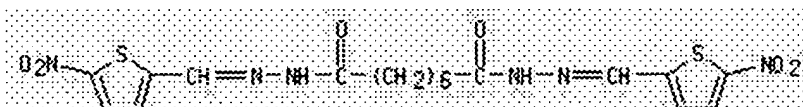
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

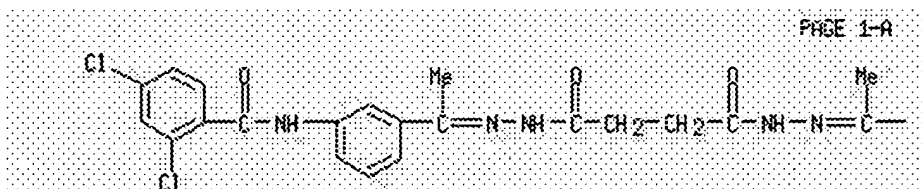
L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Octanedioic acid, bis[[5-nitro-2-thienyl)methylene]hydrazide] (9CI)
 MF C18 H20 N6 O6 S2



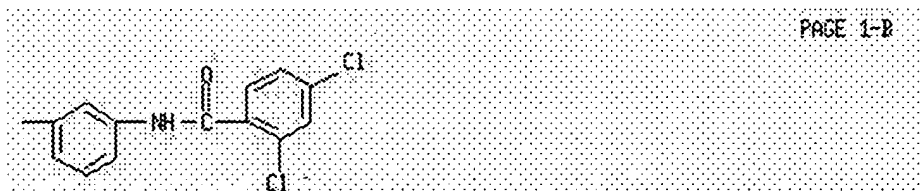
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Butanedioic acid, bis[[1-[3-[(2,4-dichlorobenzoyl)amino]phenyl]ethylidene]hydrazide] (9CI)
 MF C34 H28 Cl4 N6 O4



PAGE 1-A



PAGE 1-B

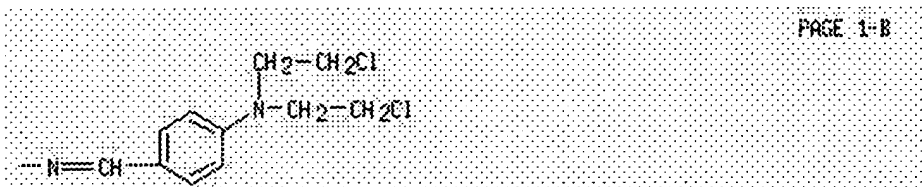
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Cadmium(2+), bis[(4-pyridinecarboxylic acid-KN1)

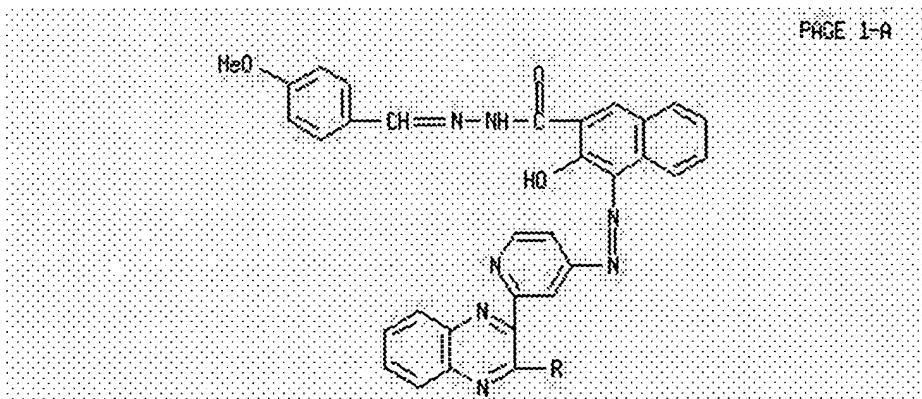
STN Columbus

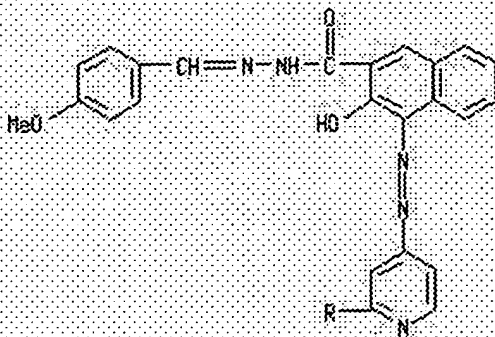
[[4-[bis(2-chloroethyl)amino]phenyl]methylene]hydrazide]- (9CI)
 MF C34 H36 Cl4 N8 O2
 CI CCS, COM



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN 2-Naphthalenecarboxylic acid, 4,4'-[2,3-quinoxalinediylbis(2,4-pyridinediylazo)]bis[3-hydroxy-, bis[[4-methoxyphenyl]methylene]hydrazide]
] (9CI)
 MF C56 H40 N12 O6

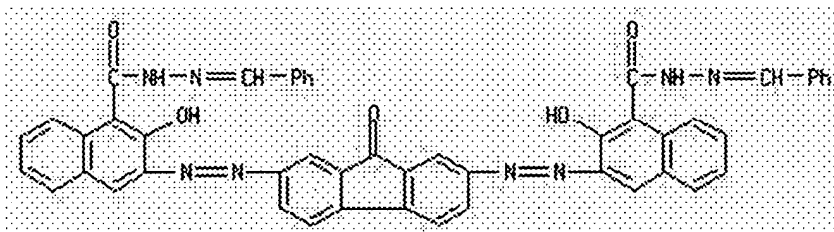




PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

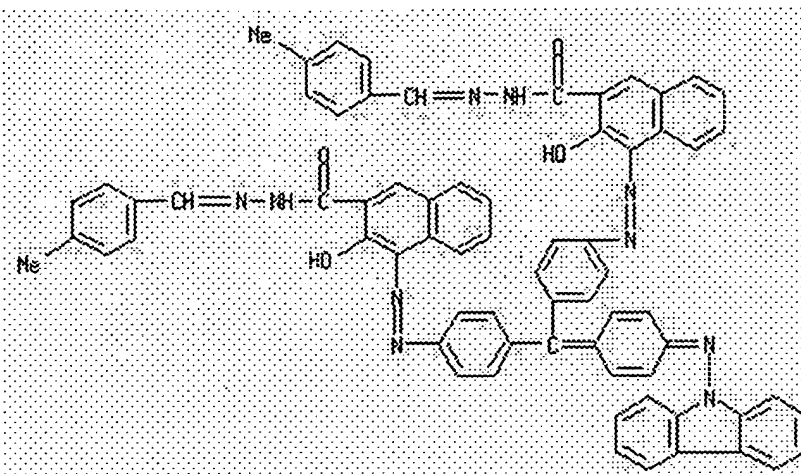
L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN 1-Naphthalenecarboxylic acid, 3,3'-bis[2-hydroxy-, bis[(phenylmethylene)hydrazide] (9CI)
 MF C49 H32 N8 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN 2-Naphthalenecarboxylic acid, 4-[[4-[[4-(9H-carbazol-9-ylimino)-2,5-cyclohexadien-1-ylidene] [4-[[2-hydroxy-3-[[[(4-methylphenyl)methylene]hydrazino] carbonyl]-1-naphthalenyl]azo]phenyl]methyl]phenyl]azo]-3-hydroxy-, [(4-methylphenyl)methylene]hydrazide (9CI)
 MF C69 H50 N10 O4



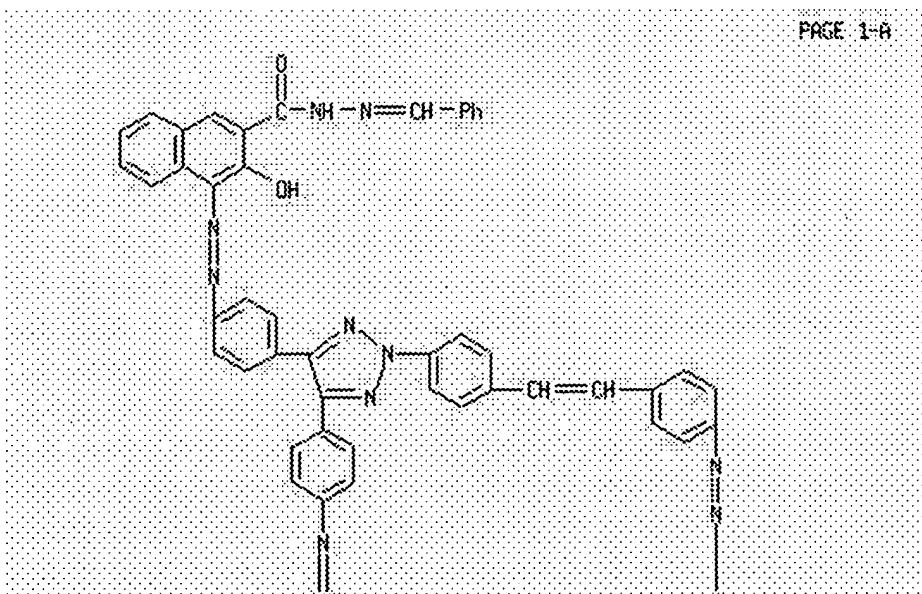
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

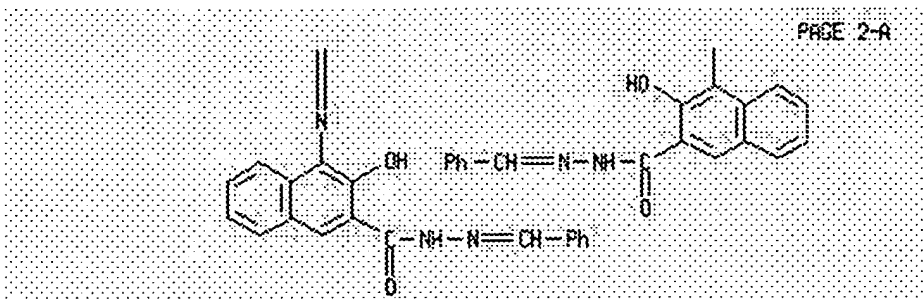
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN 2-Naphthalenecarboxylic acid, 4,4'-[[2-[4-[2-[4-[[2-hydroxy-3-
 [(phenylmethylene)hydrazino]carbonyl]-1-naphthalenyl]azo]phenyl]ethenyl]p
 henyl]-2H-1,2,3-triazole-4,5-diyl]bis(4,1-phenyleneazo)]bis[3-hydroxy-,
 bis[(phenylmethylene)hydrazide] (9CI)

MF C82 H57 N15 O6



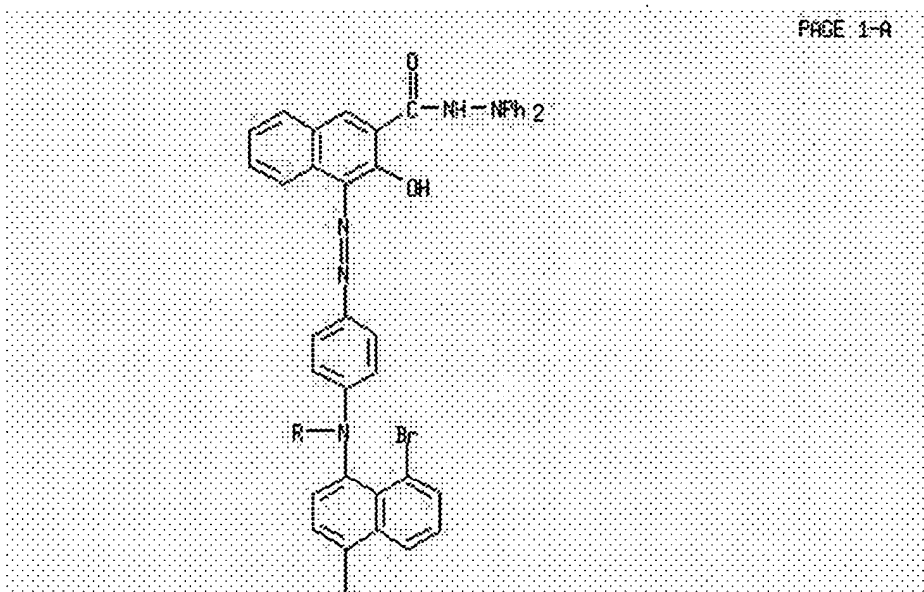


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

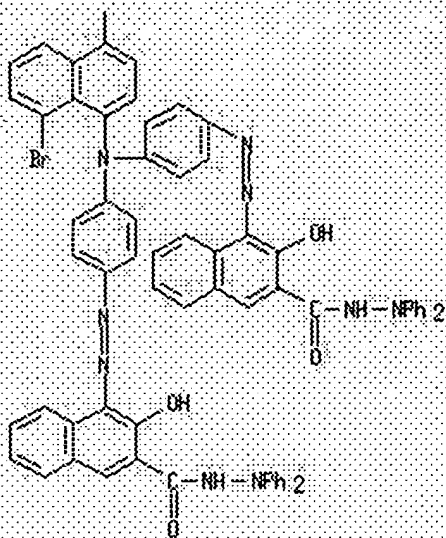
L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN 2-Naphthalenecarboxylic acid, 4,4',4'',4'''-[(5,5'-dibromo[1,1'-binaphthalene]-4,4'-diyl)bis[nitrilobis(4,1-phenyleneazo)]]tetrakis[2-hydroxy-, tetrakis(2,2-diphenylhydrazide) (9CI)

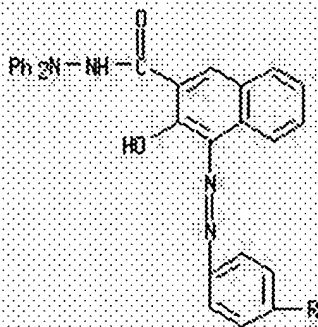
MF C136 H94 Br2 N18 O8



PAGE 2-A

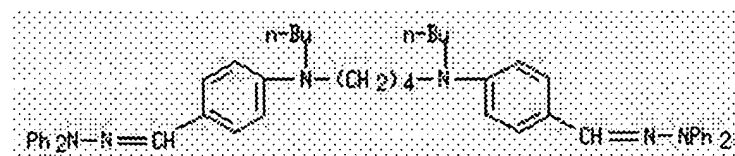


PAGE 3-A



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Benzaldehyde, 4,4'-[1,4-butanediylbis(butylimino)]bis-,
 bis(diphenylhydrazone) (9CI)
 MF C50 H56 N6

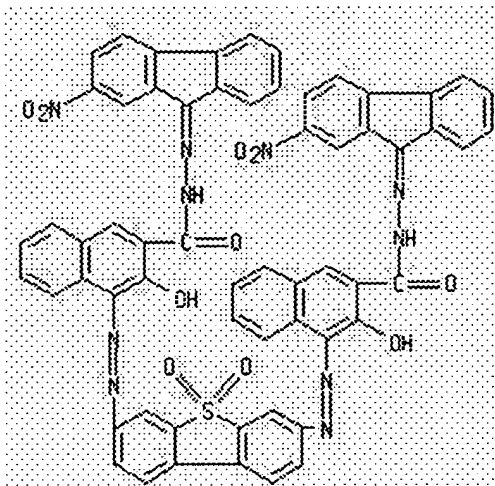


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

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L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN 2-Naphthalenecarboxylic acid, 4,4'-[(5,5-dioxido-3,7-dibenzothiophenediyl)bis(azo)]bis[3-hydroxy-, bis[(2-nitro-9H-fluoren-9-ylidene)hydrazide] (9CI)
 MF C60 H34 N10 O10 S

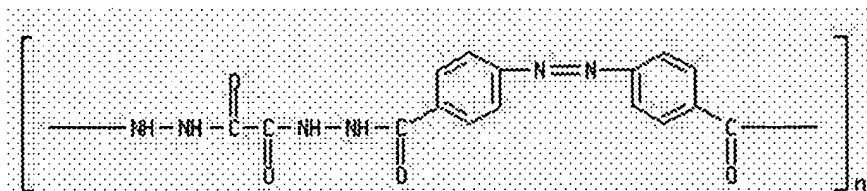


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

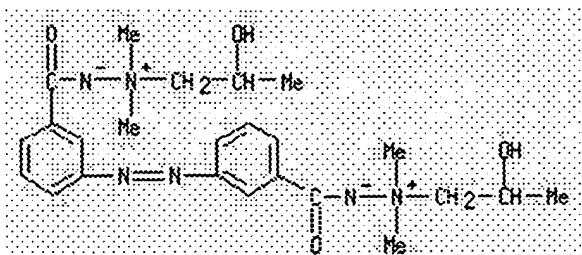
L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Poly[hydrazo(1,2-dioxo-1,2-ethanediyl)hydrazocarbonyl-1,4-phenyleneazo-1,4-phenylenecarbonyl] (9CI)
 MF (C16 H12 N6 O4)n
 CI PMS

RELATED POLYMERS AVAILABLE WITH POLYLINK



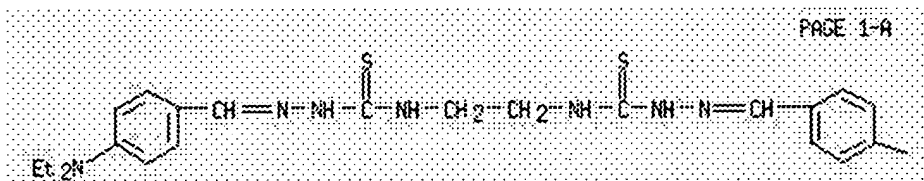
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Hydrazinium, 2,2'-[azobis(3,1-phenylenecarbonyl)]bis[1-(2-hydroxypropyl)-1,1-dimethyl-, bis(inner salt) (9CI)
 MF C24 H34 N6 O4

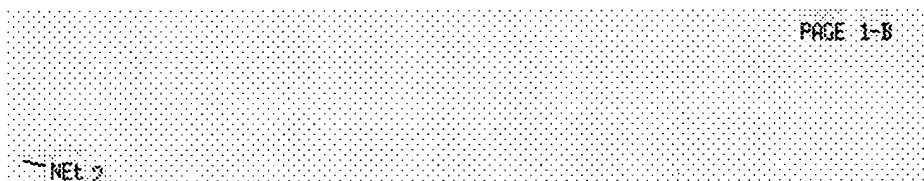


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Hydrazinecarbothioamide, N,N'-1,2-ethanediylbis[2-[[4-(diethylamino)phenyl]methylene]- (9CI)
 MF C26 H38 N8 S2



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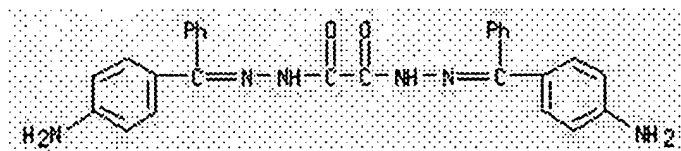


PAGE 1-B

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Oxalic acid, bis[(p-amino-α-phenylbenzylidene)hydrazide] (8CI)
 MF C28 H24 N6 O2

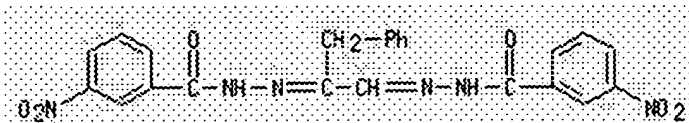


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

STN Columbus

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

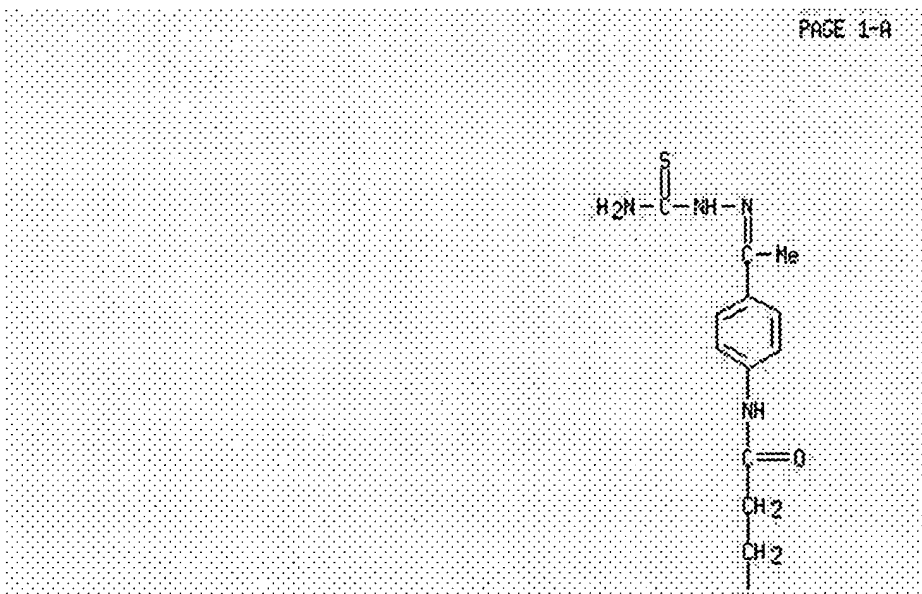
L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN INDEX NAME NOT YET ASSIGNED
MF C23 H18 N6 O6

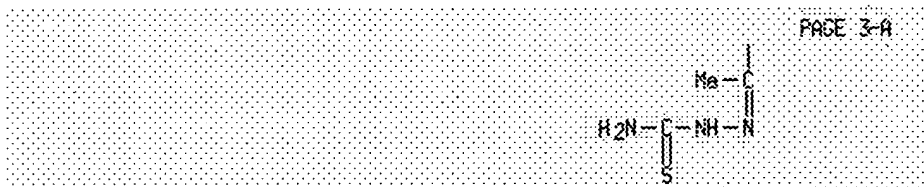
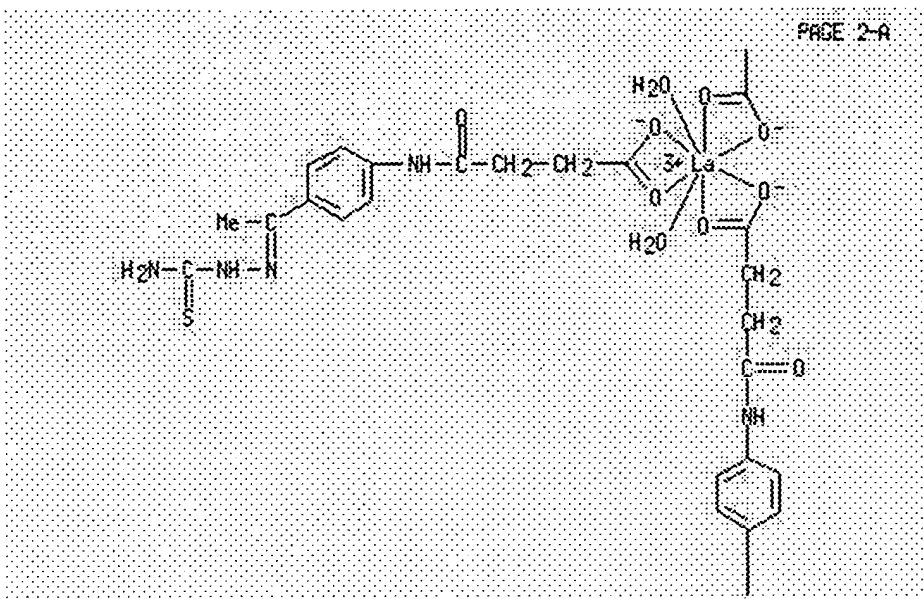


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

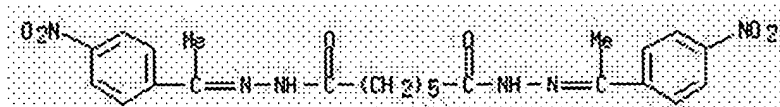
L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Lanthanum, tris[4-[[4-[1-[(aminothioxomethyl)hydrazono]ethyl]phenyl]amino]-
4-oxobutanoato-O1,O1']diaqua- (9CI)
MF C39 H49 La N12 O11 S3
CI CCS, COM





HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Heptanedioic acid, bis[[1-(4-nitrophenyl)ethylidene]hydrazide] (9CI)
 MF C23 H26 N6 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)end

=> log h

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

4.30

4.51

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 06:58:44 ON 20 SEP 2005

STN Columbus

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
 SESSION RESUMED IN FILE 'REGISTRY' AT 07:03:03 ON 20 SEP 2005
 FILE 'REGISTRY' ENTERED AT 07:03:03 ON 20 SEP 2005
 COPYRIGHT (C) 2005 American Chemical Society (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.30	4.51

=>

Uploading structure
 screen 1996

L9 SCREEN CREATED

=>

L10 STRUCTURE UPLOADED

=>

L11 QUE L10 AND L9

=> s sam l11

SAMPLE SEARCH INITIATED 07:03:38 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 11363 TO ITERATE

17.6% PROCESSED 2000 ITERATIONS 1 ANSWERS
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
 SEARCH TIME: 00.00.01

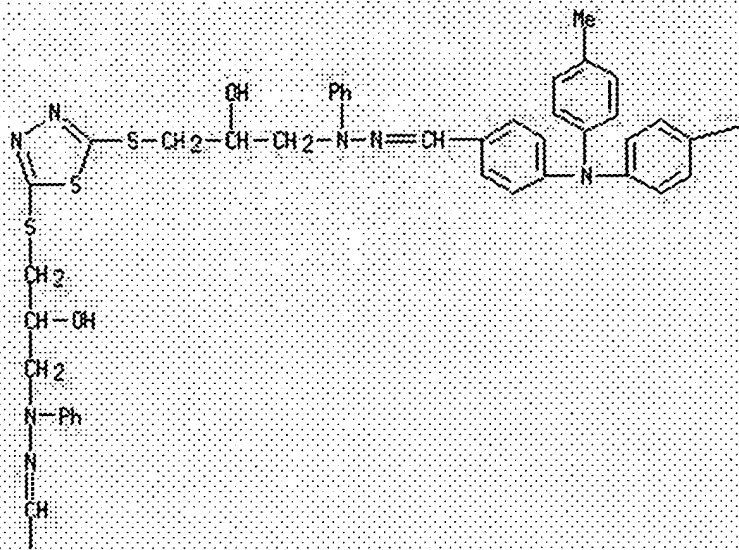
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 220873 TO 233647
 PROJECTED ANSWERS: 1 TO 256

L12 1 SEA SSS SAM L10 AND L9

=> d scan

L12 1 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Benzaldehyde, 4-[bis(4-methylphenyl)amino]-, 1,3,4-thiadiazole-2,5-
 diylbis[thio(2-hydroxy-3,1-propanediyl)]bis(phenylhydrazone) (9CI)
 MF C62 H60 N8 O2 S3

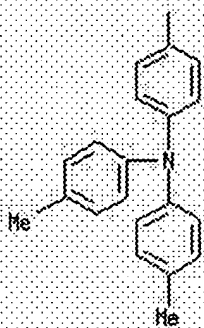
PAGE 1-A



PAGE 1-B

Me

PAGE 2-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> s l12 sss full

FULL SEARCH INITIATED 07:04:46 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 228755 TO ITERATE

100.0% PROCESSED 228755 ITERATIONS
SEARCH TIME: 00.00.05

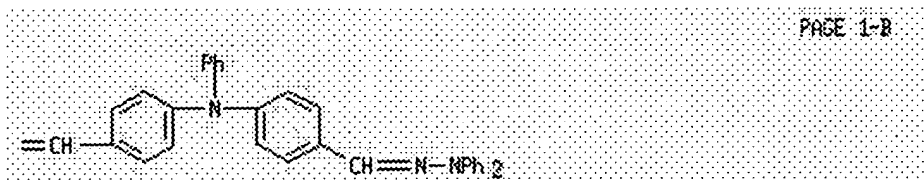
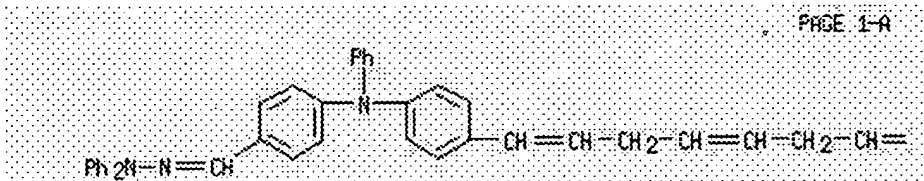
201 ANSWERS

STN Columbus

L13 201 SEA SSS FUL L10 AND L9

=> d scan

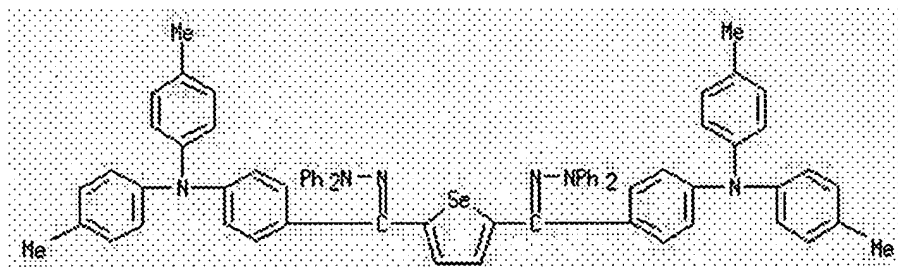
L13 201 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Benzaldehyde, 4,4'-[1,4,7-octatriene-1,8-diylbis[4,1-phenylene(phenylimino)]]bis-, bis(diphenylhydrazone) (9CI)
 MF C70 H58 N6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L13 201 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Methanone, 2,5-selenophenediylbis[[4-[bis(4-methylphenyl)amino]phenyl]-, bis(diphenylhydrazone) (9CI)
 MF C70 H58 N6 Se



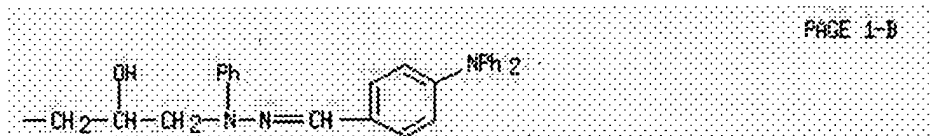
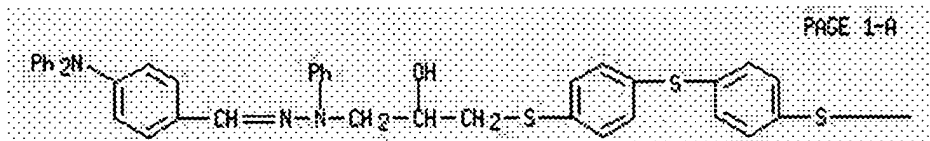
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L13 201 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Benzaldehyde, 4-(diphenylamino)-, [thiobis[4,1-phenylenethio(2-hydroxy-3,1-

STN Columbus

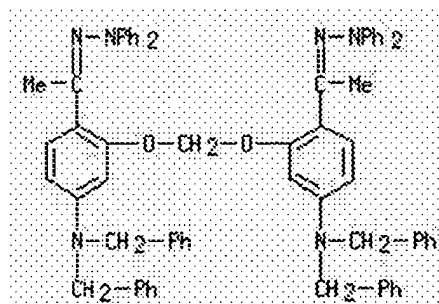
propanediyl]]]bis(phenylhydrazone) (9CI)
MF C68 H60 N6 O2 S3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L13 201 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Ethanone, 1,1'-[methylenebis[oxy[4-[bis(phenylmethyl)amino]-2,1-phenylene]]]bis-, bis(diphenylhydrazone) (9CI)
MF C69 H62 N6 O2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)fil stnguide
'FIL STNGUIDE' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> fil stnguide

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

169.93

170.14

STN Columbus

FILE 'STNGUIDE' ENTERED AT 07:09:25 ON 20 SEP 2005
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Sep 16, 2005 (20050916/UP).

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	170.20

FILE 'REGISTRY' ENTERED AT 07:09:52 ON 20 SEP 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 19 SEP 2005 HIGHEST RN 863478-08-4
DICTIONARY FILE UPDATES: 19 SEP 2005 HIGHEST RN 863478-08-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> save l13 a749171/a

ANSWER SET L13 HAS BEEN SAVED AS 'A749171/A'

=> log h

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.43	170.63

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:10:11 ON 20 SEP 2005

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 07:25:07 ON 20 SEP 2005
FILE 'REGISTRY' ENTERED AT 07:25:07 ON 20 SEP 2005

STN Columbus

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.43	170.63

=>
Uploading structure
screen 1996

L14 SCREEN CREATED

=>
L15 STRUCTURE UPLOADED

=>
L16 QUE L15 AND L14

=> s sub=l13 sss ful l16
FULL SUBSET SEARCH INITIATED 07:26:16 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 201 TO ITERATE

100.0% PROCESSED	201 ITERATIONS	21 ANSWERS
SEARCH TIME: 00.00.01		

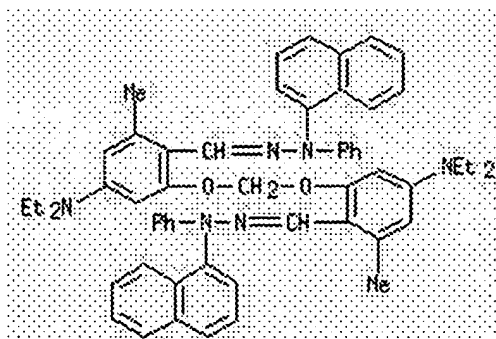
L17 21 SEA SUB=L13 SSS FUL L15 AND L14

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
CONNECT CHARGES	1.11	9.03
NETWORK CHARGES	0.18	1.56
SEARCH CHARGES	38.05	198.95
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FULL ESTIMATED COST	39.34	209.54

IN FILE 'REGISTRY' AT 07:26:24 ON 20 SEP 2005

=> d scan

L17 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzaldehyde, 2,2'-[methylenebis(oxy)]bis[4-(diethylamino)-6-methyl-,
bis(1-naphthalenylphenylhydrazone) (9CI)
MF C57 H58 N6 O2

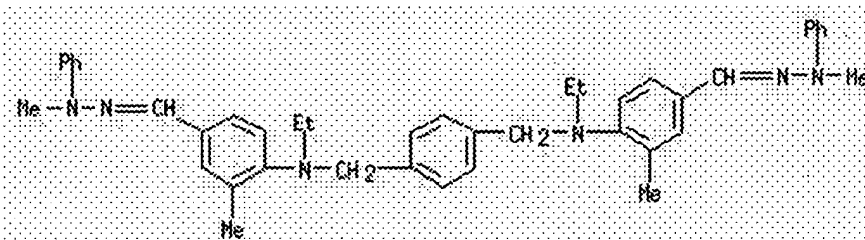


STN Columbus

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

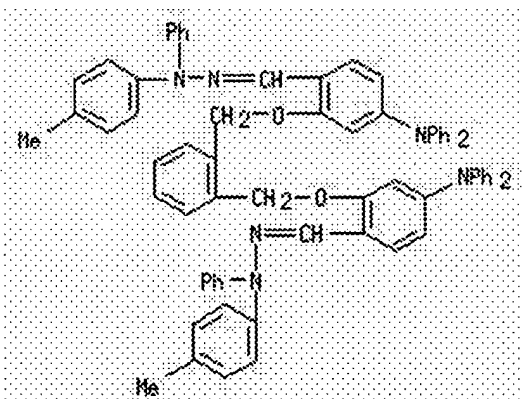
L17 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Benzaldehyde, 4,4'-[1,4-phenylenebis(methylene(ethylimino))]]bis[3-methyl-,
 bis(methylphenylhydrazone) (9CI)
 MF C42 H48 N6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L17 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Benzaldehyde, 2,2'-[1,2-phenylenebis(methyleneoxy)]bis[4-(diphenylamino)-,
 bis[(4-methylphenyl)phenylhydrazone] (9CI)
 MF C72 H60 N6 O2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)end

=> fil ca; s l17

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE

ENTRY

40.20

TOTAL

SESSION

210.40

STN Columbus

FILE 'CA' ENTERED AT 07:27:22 ON 20 SEP 2005
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FILE COVERS 1907 - 15 Sep 2005 VOL 143 ISS 13
 FILE LAST UPDATED: 15 Sep 2005 (20050915/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

L18 10 L17

=> d fbib hitstr 1-10; fil stnguide

L18 ANSWER 1 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 141:233149 CA
 TI Organophotoreceptor with charge transport material having two hydrazone groups
 IN Tokarski, Zbigniew; Montrimas, Edmundas; Paulauskaite, Ingrida; Jubran, Nusrallah; Gaidelis, Valentas; Getautis, Vytautas
 PA Samsung Electronics Co., Ltd., S. Korea
 SO Eur. Pat. Appl., 26 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1452924	A1	20040901	EP 2004-251132	20040227
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK, HR				
				US 2003-451308P	P 20030228
				US 2003-749171	A 20031230
	US 2004170910	A1	20040902	US 2003-749171	20031230
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	CN 1540764	A	20041027	CN 2004-10038757	20040228
				US 2003-451308P	P 20030228
				US 2003-749171	A 20031230
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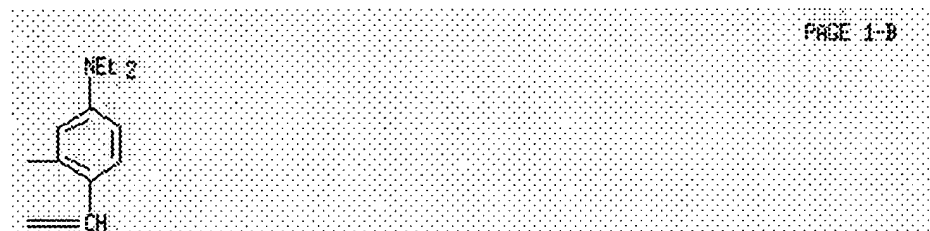
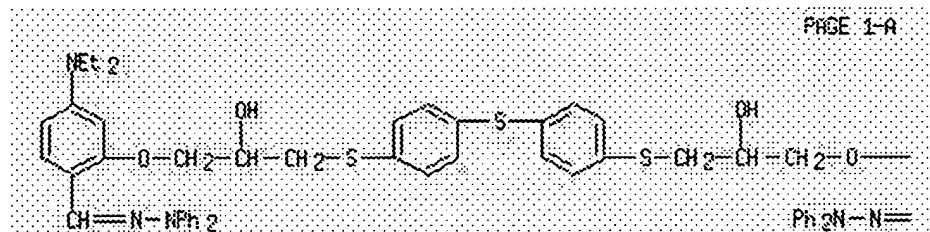
OS MARPAT 141:233149
 IT 748789-21-1P 748789-22-2P 748789-23-3P
 748789-24-4P

STN Columbus

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(organo photoreceptor with charge transport material having two hydrazone groups)

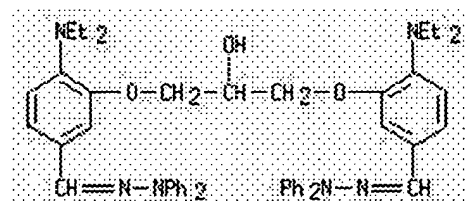
RN 748789-21-1 CA

CN Benzaldehyde, 2,2'-[thiobis[4,1-phenylenethio(2-hydroxy-3,1-propanediyl)oxy]]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



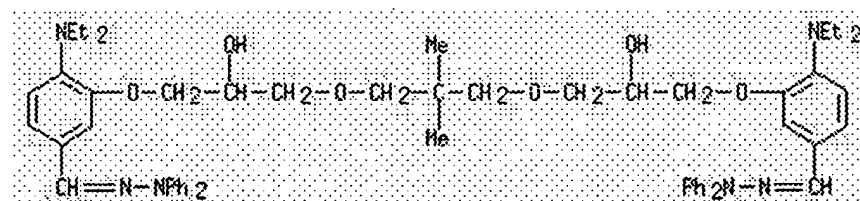
RN 748789-22-2 CA

CN Benzaldehyde, 3,3'-[(2-hydroxy-1,3-propanediyl)bis(oxy)]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



RN 748789-23-3 CA

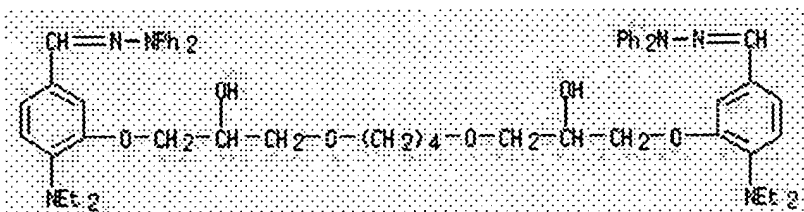
CN Benzaldehyde, 3,3'-[(2,2-dimethyl-1,3-propanediyl)bis[oxy(2-hydroxy-3,1-propanediyl)oxy]]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



RN 748789-24-4 CA

CN Benzaldehyde, 3,3'-[1,4-butanediylbis[oxy(2-hydroxy-3,1-propanediyl)oxy]]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)

INDEX NAME)



L18 ANSWER 2 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 141:173964 CA

TI Preparation of organophotoreceptors with charge transport materials having two linked hydrazone groups

IN Tokarski, Zbigniew; Jubran, Nusrallah; Getautis, Vytautas; Daskeviciene, Maryte; Gaidelis, Valentas; Jankauskas, Vygintas

PA Samsung Electronics Co., Ltd., S. Korea

SO Eur. Pat. Appl., 25 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1443039	A1	20040804	EP 2004-250289	20040121
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
				US 2003-443919P	P 20030131
				US 2003-749174	A 20031230
	US 2004152002	A1	20040805	US 2003-749174	20031230
				US 2003-443919P	P 20030131
	JP 2004234005	A2	20040819	JP 2004-20899	20040129
				US 2003-443919P	P 20030131
				US 2003-749174	A 20031230
	CN 1538246	A	20041020	CN 2004-10028207	20040130
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				US 2003-749174	A 20031230

OS MARPAT 141:173964

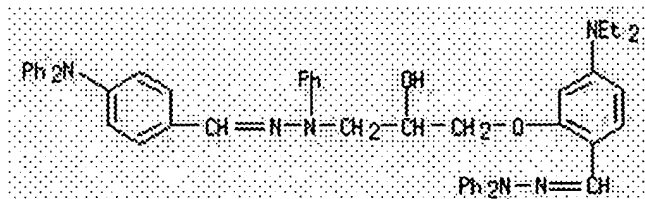
IT 688008-07-3P 688008-09-5P 688008-10-8P

688008-11-9P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of organophotoreceptors with charge transport materials having two linked hydrazone groups)

RN 688008-07-3 CA

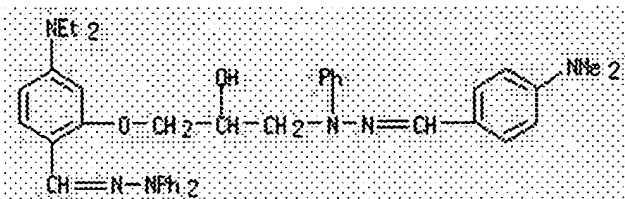
CN Benzaldehyde, 4-(diethylamino)-2-[3-[[[4-(diphenylamino)phenyl]methylene]phenylhydrazino]-2-hydroxypropoxy]-, diphenylhydrazone (9CI) (CA INDEX NAME)



RN 688008-09-5 CA

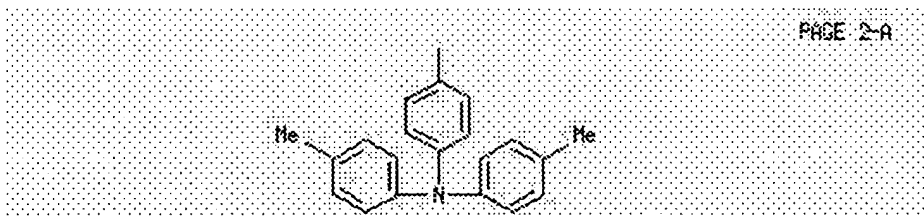
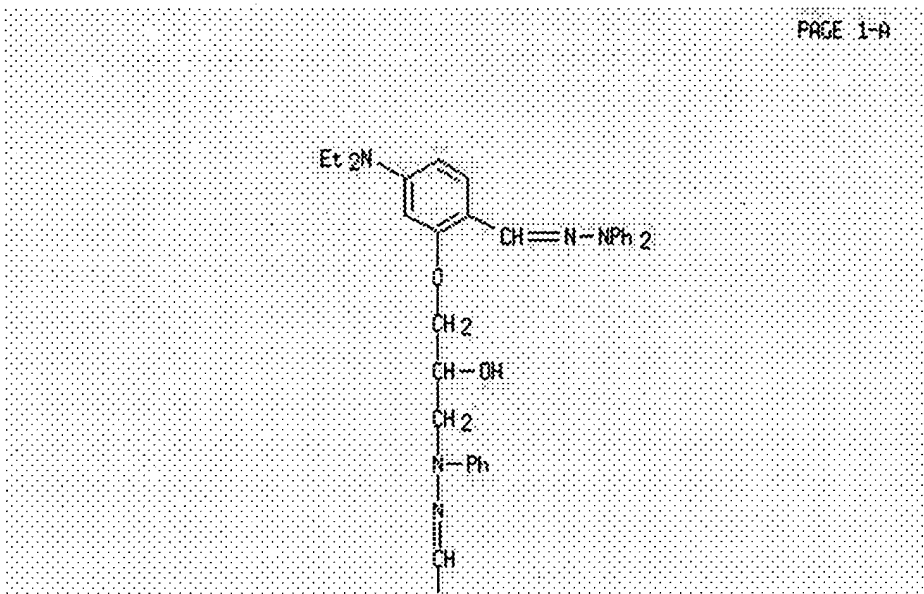
STN Columbus

CN Benzaldehyde, 4-(diethylamino)-2-[3-[[[4-(dimethylamino)phenyl]methylene]phenylhydrazino]-2-hydroxypropoxy]-, diphenylhydrazone (9CI) (CA INDEX NAME)



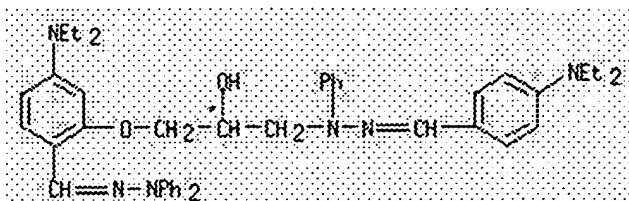
RN 688008-10-8 CA

CN Benzaldehyde, 2-[3-[[[4-[bis(4-methylphenyl)amino]phenyl]methylene]phenylhydrazino]-2-hydroxypropoxy]-4-(diethylamino)-, diphenylhydrazone (9CI) (CA INDEX NAME)



RN 688008-11-9 CA

CN Benzaldehyde, 4-(diethylamino)-2-[3-[[[4-(diethylamino)phenyl]methylene]phenylhydrazino]-2-hydroxypropoxy]-, diphenylhydrazone (9CI) (CA INDEX NAME)



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 3 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 140:397343 CA

TI Organophotoreceptor with charge transport compound with hydrazone groups

IN Tokarski, Zbigniew; Montrimas, Edmundas; Paulauskaite, Ingrida; Law, Kam W.; Jubran, Nusrallah; Gaidelis, Valentas; Jankauskas, Vygtintas; Getautis, Vytautas

PA Samsung Electronics Co., Ltd., S. Korea

SO Eur. Pat. Appl., 32 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	EP 1418469	A2	20040512	EP 2003-256699	20031023
	EP 1418469	A3	20050601		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 2004106054	A1	20040603	US 2002-421182P	P 20021028
				US 2003-644547	20030820
				US 2002-421182P	P 20021028
	JP 2004151725	A2	20040527	JP 2003-367665	20031028
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OS MARPAT 140:397343

IT 688008-07-3P 688008-09-5P 688008-10-8P

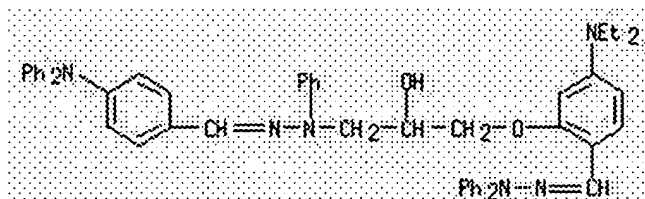
688008-11-9P

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(electrophotog. organo-photoreceptor with charge transport compd. with hydrazone groups)

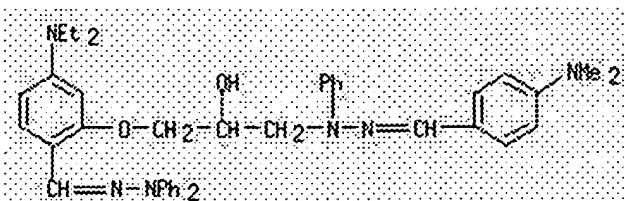
RN 688008-07-3 CA

CN Benzaldehyde, 4-(diethylamino)-2-[3-[[[4-(diphenylamino)phenyl]methylene]phenylhydrazino]-2-hydroxypropoxy]-, diphenylhydrazone (9CI) (CA INDEX NAME)



RN 688008-09-5 CA

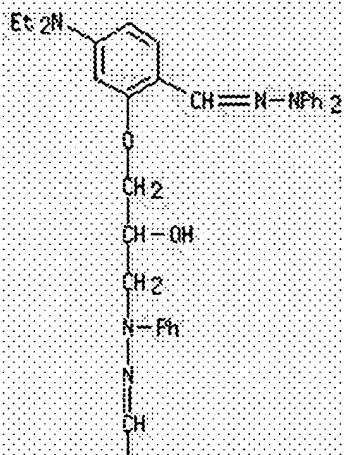
CN Benzaldehyde, 4-(diethylamino)-2-[3-[[[4-(dimethylamino)phenyl]methylene]phenylhydrazino]-2-hydroxypropoxy]-, diphenylhydrazone (9CI) (CA INDEX NAME)



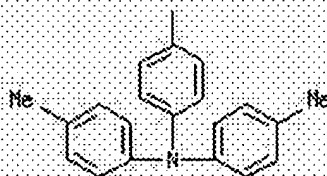
RN 688008-10-8 CA

CN Benzaldehyde, 2-[3-[[[4-[bis(4-methylphenyl)amino]phenyl]methylene]phenyl]hydrazino]-2-hydroxypropoxy]-4-(diethylamino)-, diphenylhydrazone (9CI)
(CA INDEX NAME)

PAGE 1-A

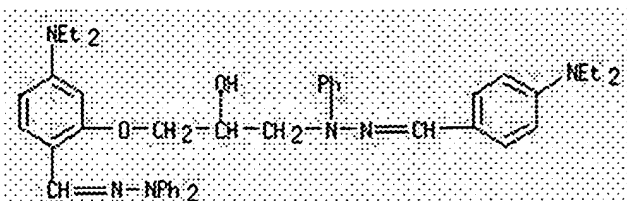


PAGE 2-A



RN 688008-11-9 CA

CN Benzaldehyde, 4-(diethylamino)-2-[3-[[[4-(diethylamino)phenyl]methylene]phenyl]hydrazino]-2-hydroxypropoxy]-, diphenylhydrazone (9CI) (CA INDEX NAME)



L18 ANSWER 4 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 129:195773 CA

TI Electrophotographic photoreceptor using novel hydrazone-type charge-transporting agent

IN Kurota, Masami

PA Fuji Electric Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

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PI	JP 10207094	A2	19980807	JP 1997-6160	19970117
				JP 1997-6160	19970117

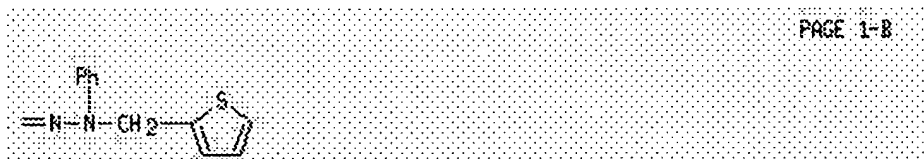
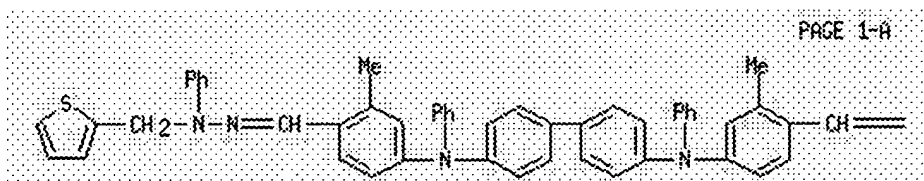
OS MARPAT 129:195773

IT 211635-06-2

RL: TEM (Technical or engineered material use); USES (Uses)
(electrophotog. photoconductor using hydrazone charge-transporting agent)

RN 211635-06-2 CA

CN Benzaldehyde, 4,4'-[[1,1'-biphenyl]-4,4'-diylbis(phenylimino)]bis[2-methyl-, bis[phenyl(2-thienylmethyl)hydrazone] (9CI) (CA INDEX NAME)



L18 ANSWER 5 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 118:136179 CA

TI Electrophotographic photoreceptor

IN Murayama, Tetsuo; Ono, Hitoshi; Saita, Atsuo; Watabe, Sumiko

PA Mitsubishi Kasei Corp., Japan

SO Eur. Pat. Appl., 58 pp.

CODEN: EPXXDW

STN Columbus

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 511664	A1	19921104	EP 1992-107347	19920429
	EP 511664	B1	19961106		
	R: DE, FR, GB, IT				
				JP 1991-99112	A 19910430
				JP 1991-111943	A 19910516
				JP 1991-172791	A 19910712
	JP 04328753	A2	19921117	JP 1991-99112	19910430
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	JP 05019512	A2	19930129	JP 1991-172791	19910712
	JP 2956288	B2	19991004		
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	US 5284728	A	19940208	US 1992-876085	19920430
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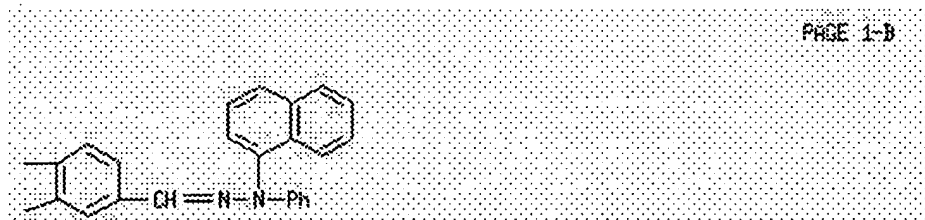
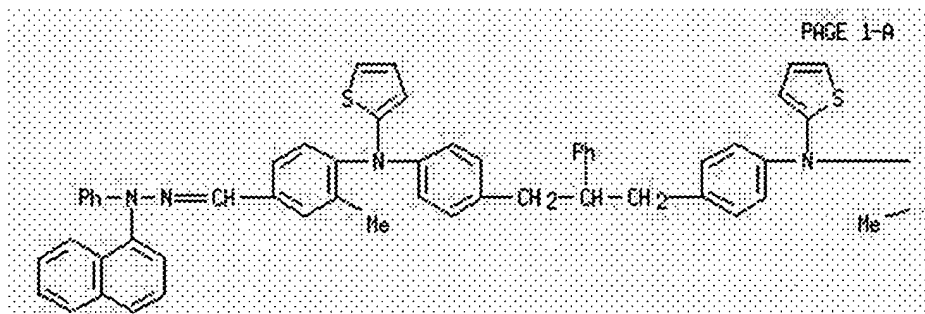
IT 146351-24-8 146351-25-9 146351-26-0
146351-27-1 146351-28-2 146351-30-6

RL: USES (Uses)

(electrophotog. photoreceptor with photosensitive layer contg., for high-sensitivity and small residual potential)

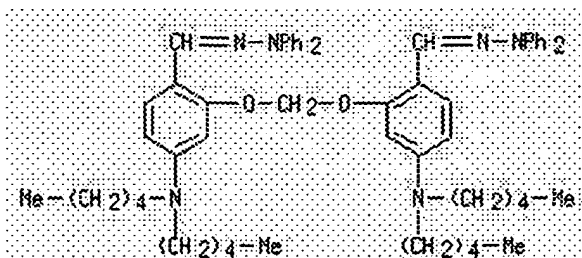
RN 146351-24-8 CA

CN Benzaldehyde, 4,4'-[(2-phenyl-1,3-propanediyl)bis[4,1-phenylene(2-thienylimino)]]bis[3-methyl-, bis(1-naphthalenylphenylhydrazone) (9CI)
(CA INDEX NAME)



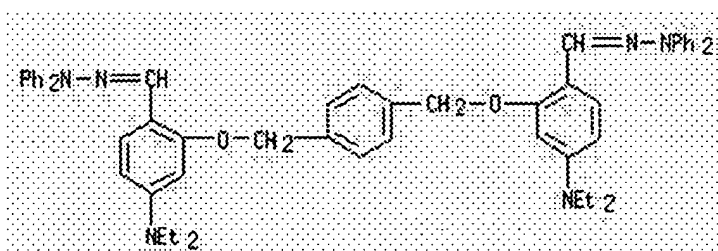
RN 146351-25-9 CA

CN Benzaldehyde, 2,2'-[methylenebis(oxy)]bis[4-(dipentylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



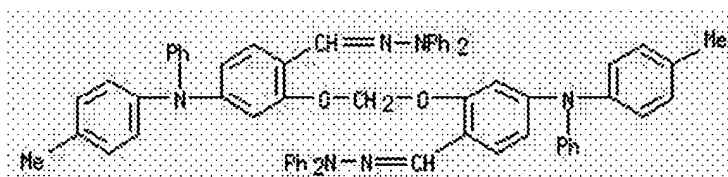
RN 146351-26-0 CA

CN Benzaldehyde, 2,2'-[1,4-phenylenebis(methyleneoxy)]bis[4-(diethylamino)-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



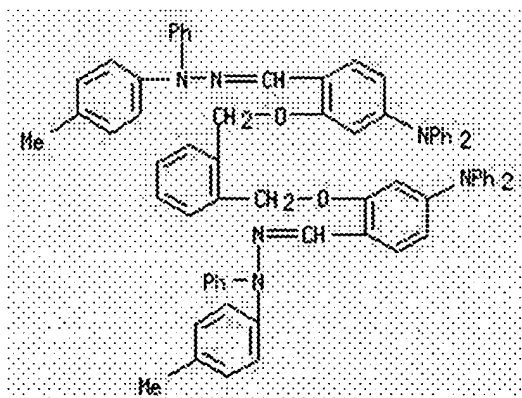
RN 146351-27-1 CA

CN Benzaldehyde, 2,2'-[methylenebis(oxy)]bis[4-[(4-methylphenyl)phenylamino]-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



RN 146351-28-2 CA

CN Benzaldehyde, 2,2'-[1,2-phenylenebis(methyleneoxy)]bis[4-(diphenylamino)-, bis[(4-methylphenyl)phenylhydrazone] (9CI) (CA INDEX NAME)

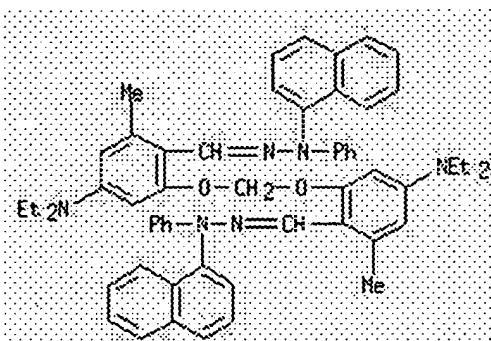


RN 146351-30-6 CA

CN Benzaldehyde, 2,2'-[methylenebis(oxy)]bis[4-(diethylamino)-6-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)

STN Columbus

bis(1-naphthalenylphenylhydrazone) (9CI) (CA INDEX NAME)

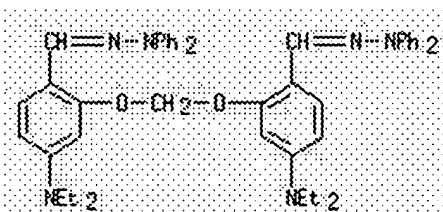


IT 146351-06-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and application of, in electrophotog. photoreceptor
photosensitive layer)

RN 146351-06-6 CA

CN Benzaldehyde, 2,2'-[methylenebis(oxy)]bis[4-(diethylamino)-,
bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



L18 ANSWER 6 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 109:160521 CA

TI Electrophotographic photoreceptor using phthalocyanine dye and
bishydrazone compound in the photoconductor layer

IN Horie, Seiji; Makino, Naonori; Sato, Hideo

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63048552	A2	19880301	JP 1986-191774	19860818
	US 4814245	A	19890321	US 1987-86449	19870818
				JP 1986-191774	A 19860818

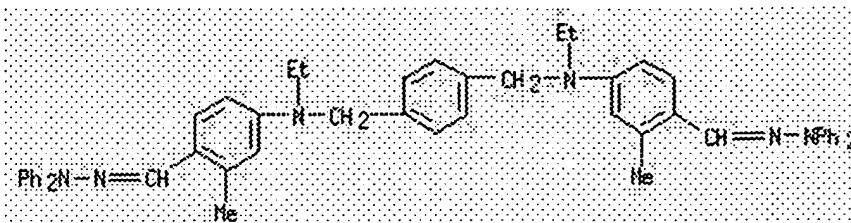
IT 101158-43-4

RL: USES (Uses)

(charge-transporting layer contg., for electrophotog. photoreceptor)

RN 101158-43-4 CA

CN Benzaldehyde, 4,4'-[1,4-phenylenebis[methylene(ethylimino)]]bis[2-methyl-,
bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



L18 ANSWER 7 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 104:196950 CA
 TI Electrophotographic materials
 IN Ehashi, Shigeyuki; Tamura, Shinichi; Suda, Yasumasa; Hikosaka, Michiya
 PA Toyo Ink Mfg. Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60237453	A2	19851126	JP 1984-91844	19840510
	JP 04024698	B4	19920427		
				JP 1984-91844	19840510

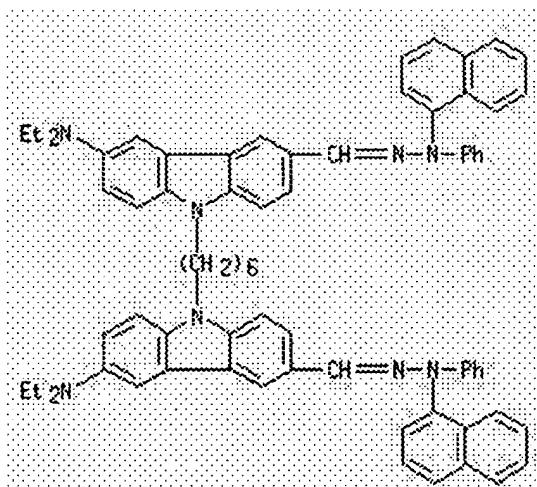
IT 101841-37-6

RL: USES (Uses)

(electrophotog. photosensitive layer contg., for improved clarity and sensitivity)

RN 101841-37-6 CA

CN 9H-Carbazole-3-carboxaldehyde, 9,9'-(1,6-hexanediyl)bis[6-(diethylamino)-, bis(1-naphthalenylphenylhydrazone) (9CI) (CA INDEX NAME)



L18 ANSWER 8 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 104:177654 CA
 TI Electrophotographic photoreceptors
 IN Horie, Seiji; Watarai, Osamu; Makino, Naonori; Sato, Hideo
 PA Fuji Photo Film Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 16 pp.
 CODEN: JKXXAF

STN Columbus

DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60196767	A2	19851005	JP 1984-53183	19840319
				JP 1984-53183	19840319

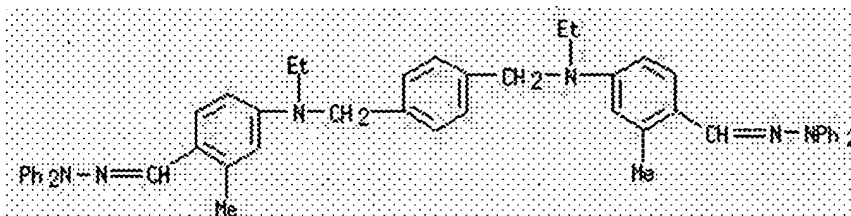
IT 101158-43-4

RL: USES (Uses)

(electrophotog. photoconductor with charge-generating layer contg., for highly charged potential and low residual charge)

RN 101158-43-4 CA

CN Benzaldehyde, 4,4'-[1,4-phenylenebis[methylene(ethylimino)]]bis[2-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



L18 ANSWER 9 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 104:139257 CA

TI Electrophotographic photoreceptors

IN Watarai, Osamu; Horie, Seiji

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 21 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60186847	A2	19850924	JP 1984-42370	19840306
	JP 04005382	B4	19920131		
	US 4594304	A	19860610	US 1985-708461	19850305
				JP 1984-42370	A 19840306

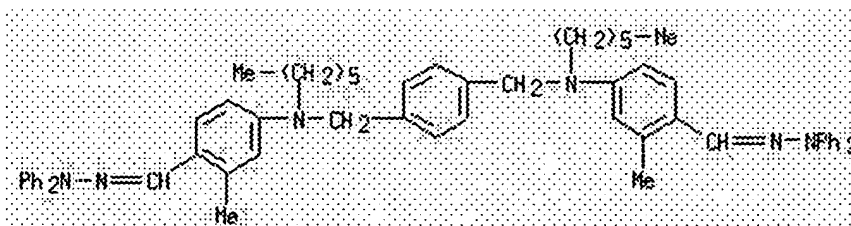
IT 101183-43-1

RL: USES (Uses)

(electrophotog. charge carrier-transporting agent)

RN 101183-43-1 CA

CN Benzaldehyde, 4,4'-[1,4-phenylenebis[methylene(hexylimino)]]bis[2-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



IT 101158-43-4P

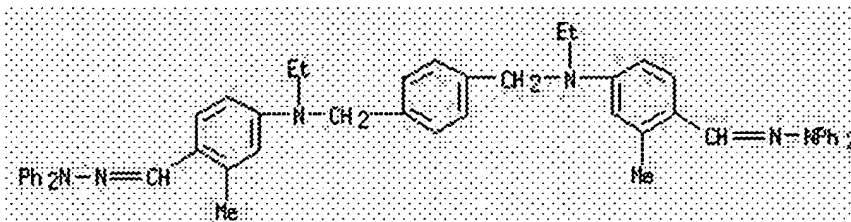
RL: PREP (Preparation)

STN Columbus

(prepn. of, as electrophotog. charge carrier-transporting agent)

RN 101158-43-4 CA

CN Benzaldehyde, 4,4'-[1,4-phenylenebis[methylene(ethylimino)]]bis[2-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



L18 ANSWER 10 OF 10 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 102:195119 CA

TI Electrophotographic photoreceptor

PA Mitsubishi Paper Mills, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 59223434	A2	19841215	JP 1983-98888	19830602
	JP 03009461	B4	19910208		
				JP 1983-98888	19830602

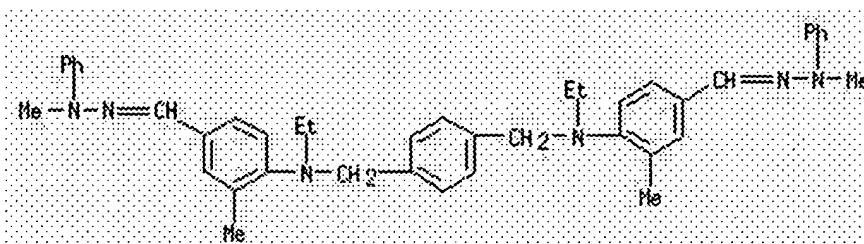
IT 96222-71-8P 96222-72-9P

RL: PREP (Preparation)

(prepn. of, as electrophotog. charge transport agent)

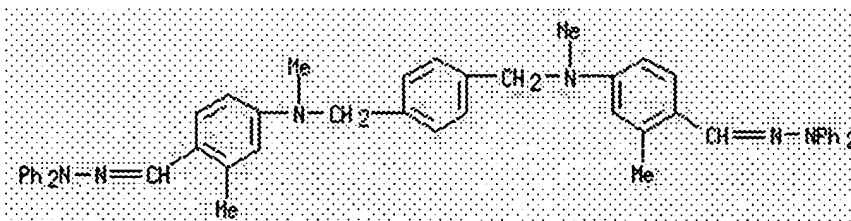
RN 96222-71-8 CA

CN Benzaldehyde, 4,4'-[1,4-phenylenebis[methylene(methylimino)]]bis[3-methyl-, bis(methylphenylhydrazone) (9CI) (CA INDEX NAME)



RN 96222-72-9 CA

CN Benzaldehyde, 4,4'-[1,4-phenylenebis[methylene(methylimino)]]bis[2-methyl-, bis(diphenylhydrazone) (9CI) (CA INDEX NAME)



STN Columbus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

32.83

243.23

FILE 'STNGUIDE' ENTERED AT 07:27:49 ON 20 SEP 2005

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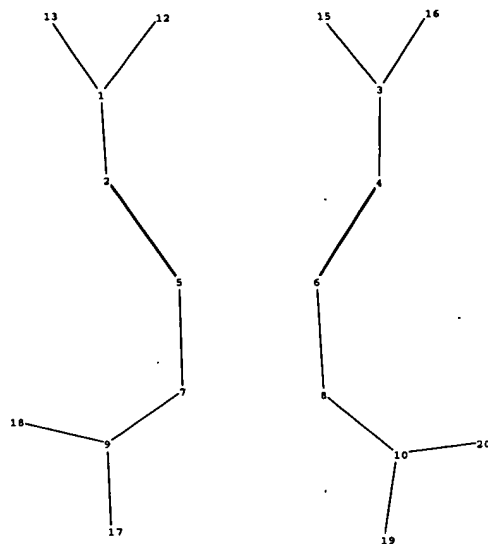
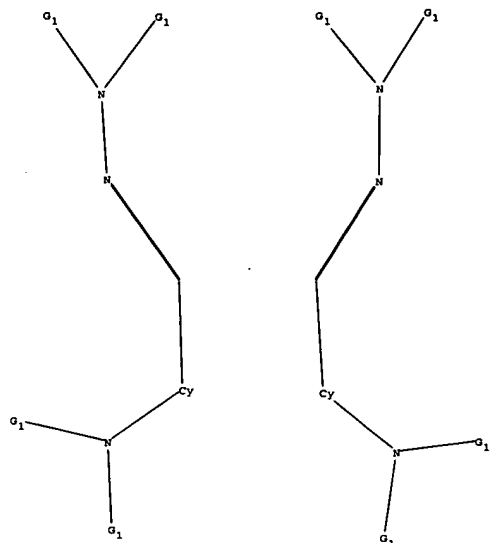
AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Sep 16, 2005 (20050916/UP).

=>

L13



chain nodes :

1 2 3 4 5 6 7 8 9 10 12 13 15 16 17 18 19 20

chain bonds :

1-2 1-12 1-13 2-5 3-4 3-16 3-15 4-6 5-7 6-8 7-9 8-10 9-17 9-18 10-19 10-20

exact/norm bonds :

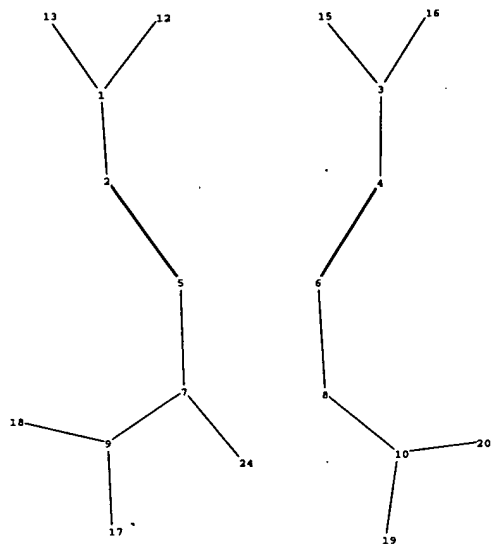
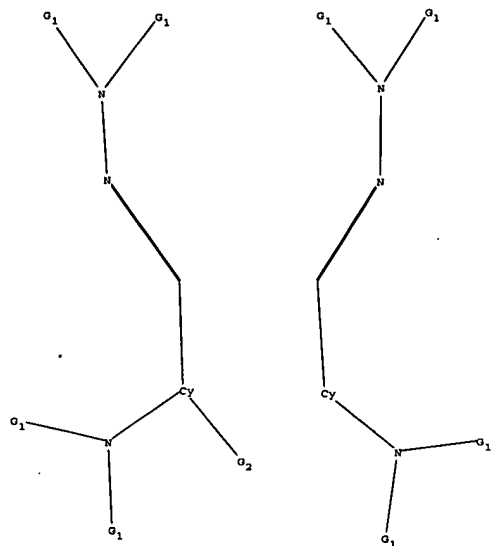
1-2 1-12 1-13 2-5 3-4 3-16 3-15 4-6 5-7 6-8 7-9 8-10 9-17 9-18 10-19 10-20

G1:Cb,Hy,Ak

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:Atom 9:CLASS 10:CLASS
12:CLASS 13:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS

216



chain nodes :

1 2 3 4 5 6 7 8 9 10 12 13 15 16 17 18 19 20 24

chain bonds :

1-2 1-12 1-13 2-5 3-4 3-16 3-15 4-6 5-7 6-8 7-9 7-24 8-10 9-17 9-18 10-19
10-20

exact/norm bonds :

1-2 1-12 1-13 2-5 3-4 3-16 3-15 4-6 5-7 6-8 7-9 7-24 8-10 9-17 9-18 10-19
10-20

G1:Cb,Hy,Ak

G2:C,O,S,N,Cy

Hydrogen count :

5:>= minimum 1 6:>= minimum 1

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:Atom 9:CLASS 10:CLASS
12:CLASS 13:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 24:CLASS